

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/533,401A
Source: 1Fw/6
Date Processed by STIC: 8/14/06

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 08/14/2006

PATENT APPLICATION: US/10/533,401A

TIME: 13:32:21

Input Set : E:\P1998R1 sequence listing.txt

Output Set: N:\CRF4\08142006\J533401A.raw

3 <110> APPLICANT: Abbas,Alex
 4 Bodary,Sarah C.
 5 Clark,Hilary
 6 Schoenfeld,Jill
 7 Wood,William I.
 8 Wu,Thomas D.
 10 <120> TITLE OF INVENTION: Compositions and Methods for the Treatment of
 11 Rheumatoid Arthritis
 13 <130> FILE REFERENCE: P1998R1-US
 15 <140> CURRENT APPLICATION NUMBER: US 10/533,401A
 C--> 16 <141> CURRENT FILING DATE: 2005-12-19
 18 <150> PRIOR APPLICATION NUMBER: PCT/US03/36002
 19 <151> PRIOR FILING DATE: 2003-11-12
 21 <150> PRIOR APPLICATION NUMBER: US 60/425,931
 22 <151> PRIOR FILING DATE: 2002-11-12
 24 <160> NUMBER OF SEQ ID NOS: 209
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 2984
 28 <212> TYPE: DNA
 29 <213> ORGANISM: Homo sapiens
 31 <400> SEQUENCE: 1
 32 taactgagcg aggagcaatt gattaatagc tcggcgaggg gactcactga 50
 34 ctgttataat aacactacac cagcaactcc tggcttccca gcagccggaa 100
 36 cacagacagg agagagtcag tggcaaatac acatttttct tatttcttaa 150
 38 aaaacagcaa ctgttttgct actttttatt ctgttgattt ttttttcttg 200
 40 gtgtgtgtgg tgggtgtttt taagtgtgga gggcaaaagg agataccatc 250
 42 ccaggctcag tccaaccctc ctccaaaacg gcttttctga cactccaggt 300
 44 agcgagggag ttgggtctcc aggttgtgag aggagcaaag gatgaccgcc 350
 46 aaggccgtag acaaaatccc agtaactctc agtggttttg tgcaccagct 400
 48 gtctgacaac atctaccgag tggaggacct cgccgccacg tcggtgacca 450
 50 tctttcccaa tgccgaactg ggaggcccct ttgaccagat gaacggagtg 500
 52 gccggagatg gcatgatcaa cattgacatg actggagaga agaggtcggt 550
 54 ggatctccca tatccagca gctttgtctc cgtctctgca cctagaaacc 600
 56 agaccttcac ttacatgggc aagttctcca ttgacctca gtaccctggt 650
 58 gccagctgct acccagaagg cataatcaat attgtgagtg caggcatctt 700
 60 gcaaggggtc acttccccag cttcaaccac agcctcatcc agcgtcacct 750
 62 ctgcctcccc caaccactg gccacaggac ccctgggtgt gtgcaccatg 800
 64 tcccagaccc agcctgacct ggaccacctg tactctccgc caccgcctcc 850
 66 tctctcttat tctggctgtg caggagacct ctaccaggac ccttctgcgt 900
 68 tctgtcagc agccaccacc tccacctctt cctctctggc ctaccacca 950
 70 cctcttctc atccatcccc caagccagcc acggaccagc gtctcttccc 1000
 72 aatgatccca gactatctg gattctttcc atctcagtc cagagagacc 1050
 74 tacatggtac agctggccca gaccgtaagc ctttccctg cccactggac 1100

6-7
pr

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80 gcagcgaggg accccggctg cctggtagca gctcagcagc agcagcagcc 1250
82 gccgcccggc ccgcctataa cccacaccac ctgccactgc ggcccattct 1300
84 gaggcctcgc aagtacccca acagaccag caagacgccg gtgcacgaga 1350
86 ggccctaccc gtgccagca gaaggctgcg accggcggtt ctcccgtctt 1400
88 gacgagctga cacggcacat ccgaatccac actgggcata agcccttcca 1450
90 gtgtcggatc tgcattgcga acttcagccg cagtgaccac ctcaccaccc 1500
92 atatccgcac ccacaccggt gagaagccct tcgcctgtga ctactgtggc 1550
94 cgaaagtttg cccggagtga tgagaggaag cgccacacca agatccacct 1600
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98 cctctacagc ctctgtctt gggggcgtgc agcctggggg taccctgtgc 1700
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102 tcggaccggg acaccttgag atgagactca ggctgataca ccagctccca 1800
104 aaggtcccgg aggcccttg tccactggag ctgcacaaca aacactacca 1850
106 ccctttcctg tccctctctc cctttgttgg gcaaagggtt ttggtggagc 1900
108 tagcactgcc ccctttccac ctagaagcag gttcttccta aaacttagcc 1950
110 cattctagtc tctcttaggt gaggtagcta tcaacccaag gcaaagggga 2000
112 ggctcagaag gaggtggtgt ggggatcccc tggccaagag ggctgaggtc 2050
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116 cttattttga cccatcacag gtttttgacc ctggatgtca gagttgatct 2150
118 aagacgtttt ctacaatagg ttgggagatg ctgatccctt caagtgggga 2200
120 cagcaaaaag acaagcaaaa ctgatgtgca ctttatggct tgggactgat 2250
122 ttgggggaca ttgtacagtg agtgaagtat agcctttatg ccacactctg 2300
124 tggccctaaa atggtgaatc agagcatatc tagttgtctc aacccttgaa 2350
126 gcaatatgta ttatatactc agagaacaga agtgcaatgt gatgggagga 2400
128 acgtagcaat atctgctcct ttcgagttg tttgagaaat gtaggctatt 2450
130 ttttcagtgt atatccactc agattttgtg tatttttgat gtaccacac 2500
132 tgttctctaa attctgaatc tttgggaaaa aatgtaaagc atttatgatc 2550
134 tcagagggtta acttatttaa gggggatgta catattctct gaaactagga 2600
136 tgcattgcaat tgtgttgga gtgccttgg tcgccttgtg tgatgtagac 2650
138 aaatgttaca aggctgcatg taaatgggtt gccttattat ggagaaaaaa 2700
140 atcactccct gagtttagta tggctgtata tttatgccta ttaatatattg 2750
142 gaattttttt tagaaaagtat atttttgat gctttgtttt gtgacttaa 2800
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146 ggagctgatt tgttttgtca ttagctctta atagttgtga aaaaataaat 2900
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153 <211> LENGTH: 476
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 2
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159 1 5 10 15
161 Gly Phe Val His Gln Leu Ser Asp Asn Ile Tyr Pro Val Glu Asp
162 20 25 30
164 Leu Ala Ala Thr Ser Val Thr Ile Phe Pro Asn Ala Glu Leu Gly
165 35 40 45

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167	Gly	Pro	Phe	Asp	Gln	Met	Asn	Gly	Val	Ala	Gly	Asp	Gly	Met	Ile
168					50					55					60
170	Asn	Ile	Asp	Met	Thr	Gly	Glu	Lys	Arg	Ser	Leu	Asp	Leu	Pro	Tyr
171					65					70					75
173	Pro	Ser	Ser	Phe	Ala	Pro	Val	Ser	Ala	Pro	Arg	Asn	Gln	Thr	Phe
174					80					85					90
176	Thr	Tyr	Met	Gly	Lys	Phe	Ser	Ile	Asp	Pro	Gln	Tyr	Pro	Gly	Ala
177					95					100					105
179	Ser	Cys	Tyr	Pro	Glu	Gly	Ile	Ile	Asn	Ile	Val	Ser	Ala	Gly	Ile
180					110					115					120
182	Leu	Gln	Gly	Val	Thr	Ser	Pro	Ala	Ser	Thr	Thr	Ala	Ser	Ser	Ser
183					125					130					135
185	Val	Thr	Ser	Ala	Ser	Pro	Asn	Pro	Leu	Ala	Thr	Gly	Pro	Leu	Gly
186					140					145					150
188	Val	Cys	Thr	Met	Ser	Gln	Thr	Gln	Pro	Asp	Leu	Asp	His	Leu	Tyr
189					155					160					165
191	Ser	Pro	Pro	Pro	Pro	Pro	Pro	Pro	Tyr	Ser	Gly	Cys	Ala	Gly	Asp
192					170					175					180
194	Leu	Tyr	Gln	Asp	Pro	Ser	Ala	Phe	Leu	Ser	Ala	Ala	Thr	Thr	Ser
195					185					190					195
197	Thr	Ser	Ser	Ser	Leu	Ala	Tyr	Pro	Pro	Pro	Pro	Ser	Tyr	Pro	Ser
198					200					205					210
200	Pro	Lys	Pro	Ala	Thr	Asp	Pro	Gly	Leu	Phe	Pro	Met	Ile	Pro	Asp
201					215					220					225
203	Tyr	Pro	Gly	Phe	Phe	Pro	Ser	Gln	Cys	Gln	Arg	Asp	Leu	His	Gly
204					230					235					240
206	Thr	Ala	Gly	Pro	Asp	Arg	Lys	Pro	Phe	Pro	Cys	Pro	Leu	Asp	Thr
207					245					250					255
209	Leu	Arg	Val	Pro	Pro	Pro	Leu	Thr	Pro	Leu	Ser	Thr	Ile	Arg	Asn
210					260					265					270
212	Phe	Thr	Leu	Gly	Gly	Pro	Ser	Ala	Gly	Val	Thr	Gly	Pro	Gly	Ala
213					275					280					285
215	Ser	Gly	Gly	Ser	Glu	Gly	Pro	Arg	Leu	Pro	Gly	Ser	Ser	Ser	Ala
216					290					295					300
218	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Tyr	Asn	Pro	His	His	Leu
219					305					310					315
221	Pro	Leu	Arg	Pro	Ile	Leu	Arg	Pro	Arg	Lys	Tyr	Pro	Asn	Arg	Pro
222					320					325					330
224	Ser	Lys	Thr	Pro	Val	His	Glu	Arg	Pro	Tyr	Pro	Cys	Pro	Ala	Glu
225					335					340					345
227	Gly	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser	Asp	Glu	Leu	Thr	Arg	His
228					350					355					360
230	Ile	Arg	Ile	His	Thr	Gly	His	Lys	Pro	Phe	Gln	Cys	Arg	Ile	Cys
231					365					370					375
233	Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr	Thr	His	Ile	Arg
234					380					385					390
236	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Tyr	Cys	Gly	Arg
237					395					400					405
239	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Arg	Lys	Arg	His	Thr	Lys	Ile	His

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242  Leu Arg Gln Lys Glu Arg Lys Ser Ser Ala Pro Ser Ala Ser Val
243                               425                               430                               435
245  Pro Ala Pro Ser Thr Ala Ser Cys Ser Gly Gly Val Gln Pro Gly
246                               440                               445                               450
248  Gly Thr Leu Cys Ser Ser Asn Ser Ser Ser Leu Gly Gly Gly Pro
249                               455                               460                               465
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252                               470                               475
254 <210> SEQ ID NO: 3
255 <211> LENGTH: 2853
256 <212> TYPE: DNA
257 <213> ORGANISM: Homo sapiens
259 <400> SEQUENCE: 3
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264  ggagcctggg cccgctgttc tgctggctga gggcaacctt ctggctgcta 150
266  gctaccaaga ggagaaagca gcagctgggtc ctgagagggc cagatgagac 200
268  caaagaggag gaagaggacc ctctctgtcc caccaccca accagcgtca 250
270  actatcactt cactcgccag tgcaactaca aatgcggctt ctgtttccac 300
272  acagccaaaa catcctttgt gctgcccctt gaggaagcaa agagaggatt 350
274  gcttttgctt aaggaagctg gtatggagaa gatcaacttt tcaggtggag 400
276  agccatttct tcaagaccgg ggagaatacc tgggcaagtt ggtgaggttc 450
278  tgcaaagtag agttgcggct gccagcgtg agcatcgtga gcaatggaag 500
280  cctgatccgg gagaggtggg tccagaatta tggtagtat ttggacattc 550
282  tcgctatctc ctgtgacagc tttgacgagg aagtcaatgt cttattggc 600
284  cgtggccaag gaaagaagaa ccatgtggaa aaccttcaaa agctgaggag 650
286  gtggtgtagg gattatagag tcgctttcaa gataaattct gtcattaatc 700
288  gtttcaacgt ggaagaggac atgacggaac agatcaaagc actaaaccct 750
290  gtccgctgga aagtgttcca gtgcctctta attgaggggtg agaattgtgg 800
292  agaagatgct ctaagagaag cagaaagatt tggtattggt gatgaagaat 850
294  ttgaaagatt cttggagcgc cacaaagaag tgcctgctt ggtgcctgaa 900
296  tctaaccaga agatgaaaga ctctacctt attctggatg aatatatgcg 950
298  ttttctgaac ttagaaaagg gacggaagga cccttccaag tccatcctgg 1000
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302  tttctgaagc gaggaggaaa atacatatgg agtaaggctg atctgaagct 1100
304  ggattggtag agcggaaagt ggaacgagac ttcaacacac cagtgggaaa 1150
306  actcctagag taactgccat tgtctgcaat actatcccgt tggattttcc 1200
308  cagtggctga aaacctgatt ttctgctgca cgtggcatct gattacctgt 1250
310  ggctactgaa cacacgaata acttggatag caaatcctga gacaatggaa 1300
312  aaccattaac tttacttcat tggcttataa ccttggtgtt attgaaacag 1350
314  cacttctgtt tttgagtttg ttttagctaa aaagaaggaa tacacacagg 1400
316  aataatgacc caaaaaatgc ttagataaagg cccctataca caggacctga 1450
318  catttagctc aatgatgcgt ttgtaagaaa taagctctag tgatatctgt 1500
320  gggggcaaaa tttaatttgg atttgatttt ttaaaacaat gtttactgcg 1550
322  atttctatat ttccattttg aaactatttc ttgttccagg tttgttcatt 1600
324  tgacagagtc agtatttttt gccaaaatc cagataacca gttttcacat 1650
326  ctgagacatt acaaagtatc tgcctcaatt atttctgctg gttataatgc 1700
328  tttttttttt ttgcctttat gccattgcag tcttgtactt tttactgtga 1750

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330 tgtacagaaa tagtcaacag atgtttccaa gaacatatga tatgataatc 1800
332 ctaccaatttt tcaagaagtc tctagaaaga gataacacat ggaaagacgg 1850
334 cgtggtgcag cccagcccac ggtgcctgtt ccatgaatgc tggctaccta 1900
336 tgtgtgtggt acctgttgtg tccctttctc ttcaaagatc cctgagcaaa 1950
338 acaaagatac gctttccatt tgatgatgga gttgacatgg aggcagtgtc 2000
340 tgcattgtct tgttcgccta tcatctggcc acatgaggct gtcaagcaaa 2050
342 agaataggag tgtagttgag tagctggttg gccctacatt tctgagaagt 2100
344 gacgttacac tgggttggca taagatatcc taaaatcacg ctggaacctt 2150
346 gggcaaggaa gaatgtgagc aagagtagag agagtgcctg gatttcatgt 2200
348 cagtgaagcc atgtcaccat atcatatttt tgaatgaact ctgagtcagt 2250
350 tgaaataggg taccatctag gtcagtttaa gaagagtcag ctcagagaaa 2300
352 gcaagcataa gggaaaatgt cacgtaaact agatcagggg acaaaaatcct 2350
354 ctcttgtggt aaatatccca tgcagtttgt tgatacaact tagtatctta 2400
356 ttgcctaaaa aaaaatttct tatcattgtt tcaaaaaagc aaaatcatgg 2450
358 aaaatttttg ttgtccaggc aaataaaagg tcattttaat ttaaaaaaaa 2500
360 aaaaaaaaaa aaaaaaaaaa aaaaggccaa ggaaaaaaaa tattcctact 2550
362 taaattttta gtctataatt caatttaa atgtgtgtgt ctcattccagg 2600
364 ataggatagg ttgtcttcta ttttccattt tacctattta ctttttttgt 2650
366 aagaaaagag aagaatgaat tctaaagatg ttccccatgg gttttgattg 2700
368 tgtctaagct atgatgacct tcatataatc agcataaaca taaaacaaat 2750
370 tttttactta acatgagtg actttactaa tcctcatggc acagtggctc 2800
372 acgcctgtaa tcccagcact tggggaggac aatgtggggg ggatcacgag 2850
374 gtc 2853

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376 <210> SEQ ID NO: 4

377 <211> LENGTH: 361

378 <212> TYPE: PRT

379 <213> ORGANISM: Homo sapiens

381 <400> SEQUENCE: 4

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382 Met Trp Val Leu Thr Pro Ala Ala Phe Ala Gly Lys Leu Leu Ser
383 1 5 10 15
385 Val Phe Arg Gln Pro Leu Ser Ser Leu Trp Arg Ser Leu Val Pro
386 20 25 30
388 Leu Phe Cys Trp Leu Arg Ala Thr Phe Trp Leu Leu Ala Thr Lys
389 35 40 45
391 Arg Arg Lys Gln Gln Leu Val Leu Arg Gly Pro Asp Glu Thr Lys
392 50 55 60
394 Glu Glu Glu Glu Asp Pro Pro Leu Pro Thr Thr Pro Thr Ser Val
395 65 70 75
397 Asn Tyr His Phe Thr Arg Gln Cys Asn Tyr Lys Cys Gly Phe Cys
398 80 85 90
400 Phe His Thr Ala Lys Thr Ser Phe Val Leu Pro Leu Glu Glu Ala
401 95 100 105
403 Lys Arg Gly Leu Leu Leu Leu Lys Glu Ala Gly Met Glu Lys Ile
404 110 115 120
406 Asn Phe Ser Gly Gly Glu Pro Phe Leu Gln Asp Arg Gly Glu Tyr
407 125 130 135
409 Leu Gly Lys Leu Val Arg Phe Cys Lys Val Glu Leu Arg Leu Pro
410 140 145 150
412 Ser Val Ser Ile Val Ser Asn Gly Ser Leu Ile Arg Glu Arg Trp

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 127,139,200,202,203,208,209,211,213,216,217,218,219,220,221
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DATE: 08/14/2006
TIME: 13:32:22

Input Set : E:\P1998R1 sequence listing.txt
Output Set: N:\CRF4\08142006\J533401A.raw

Seq#:205; Xaa Pos. 84

VERIFICATION SUMMARY

DATE: 08/14/2006

PATENT APPLICATION: US/10/533,401A

TIME: 13:32:22

Input Set : E:\P1998R1 sequence listing.txt

Output Set: N:\CRF4\08142006\J533401A.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:100
M:341 Repeated in SeqNo=7
L:1002 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:2050
M:341 Repeated in SeqNo=8
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:45
L:3602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:50
M:341 Repeated in SeqNo=39
L:3643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:15
M:341 Repeated in SeqNo=40
L:6404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:90
L:9015 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:98 after pos.:1100
L:9175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:100 after pos.:2150
M:341 Repeated in SeqNo=100
L:11593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:1150
M:341 Repeated in SeqNo=127
L:11895 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:350
M:341 Repeated in SeqNo=131
L:14258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:158 after pos.:400
M:341 Repeated in SeqNo=158
L:15433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:170 after pos.:30
L:17038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204 after pos.:250
M:341 Repeated in SeqNo=204
L:17193 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:205 after pos.:75